

## AWWA 2019 Water Audit Level 1 Validation – Review Document

Validator Provided

### Audit Information:

Utility: Marina Coast Water District      PWS ID: 2710017  
System Type: Potable      Audit Period: Calendar 2019  
Utility Representation: Paul Lord, Kelly Cadiente, Patrick Breen, Derek Cray  
Validation Date: 7/15/2020      Call Time: 12:00pm      Sufficient Supporting Documents Provided: Yes

### Validation Findings & Confirmation Statement:

#### Key Audit Metrics:

Data Validity Score: 63    Data Validity Band (Level): Band III (51-70)  
ILI: 1.76      Real Loss: 1063.01 (gal/mile-main/day)      Apparent Loss: 7.26 (gal/conn/day)  
Non-revenue water as percent of cost of operating system: 1.4%

#### Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

### Validator Information:

Water Audit Validator: Larry Lewison, Drew Blackwell      Validator Qualifications: Contractor for California Water Loss TAP

## 2019 AWWA Water Audit Level 1 Validation

**Water System Name:**  
Marina Coast Water District

**Water System ID Number:**  
#2710017

**Water Audit Period:**  
Calendar Year 2019

### Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

- Unlike 2018, all production well meters were flow tested in 2019.
- Complete production well meter testing allowed us to calculate and apply a Master Meter & Supply Error Adjustment to our water production figure.
- By the end of 2019, all unmetered connections were removed (65). All water services are now metered.
- Many of our largest, field testable meters over 3" in size were flow tested. Poor performing meters were identified for replacement. One 8" meter replaced.
- All hydrant flushing was metered.
- Using data from GIS, a more accurate measurement of distribution system mainline length was obtained.
- A more accurate calculation of Commodity Revenue (capacity charges no longer included in commodity revenue) resulted in a more accurate calculation of Customer Retail Unit Cost of water for our Ord Community.

### Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Keith Van Der Maaten

Keith Van Der Maaten (Print)

General Manager

Position

[Signature]

Signature

9/9/2020

Date